INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY	Aviation	ronezh Oblast) Plant i/n Stal vator Plant i/n ezh	in and Komintern	REPORT DATE DISTR. NO. PAGES	5 August 196	50X1-HUM
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	SOURCE EV	'ALUATIONS ARE DE	EFINITIVE. APPRAIS	AL OF CONTE	nt is tentative.	•
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	Attachmen	nt l is a seven	-nage renort o	n the Aviat	ion Plant i/n	Stalin
	_probably	the Aircraft	Engine Plant N	0.154/ in	Voronezh. The	e report
	and plant	personalities ion Plant layo		1956. A	sketch o	
	and plant the Aviat Attachmen in Vorone plant as shop. personali	t personalities ion Plant layo at 2 is a five- exh well as the lo also incl	up to October ut accompanies page report on the ma cation of a se udes informati	1956. A the report the Excave in building cret section on plant	sketch of tor Plant i/n gs and activition within the i	Komintern the instrument ganization, does not
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	and plant the Aviat Attachmen in Vorone plant as shop. personali	personalities ion Plant layo at 2 is a five- exh well as the lo also incl ties and produ sketch	up to October ut accompanies page report on the ma cation of a se udes informati	1956. A the report the Excava in building cret section on plant area.	sketch of tor Plant i/n gs and activition within the is location, org	50X1-HL Komintern les in the instrument ganization,

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to specifications. I	The tolerance for most p	parts was 0.1 (1/10) to 0.	3 (3/10) 50X1-HUM
		the plant had no other	
tion, such as consume	er goods.	one prant had no othe	r brodue=
M-11	engines had been manu	factured ever since the plant	ant became
operative.		de data de la principal de la	mio became
Organization and Pers	onnel		50X1-HUM
The plant employed al	out 2,000 workers.		
outgoing production, production chief were constructor, and four	and storage, and a prode the construction office or five constructors; agist and six technological	struments, incoming raw markuction chief. Subordinaries which were staffed by a the technological offices, sts; and the laboratory where the staffed by a staffed	te to the a chief . staffed
The plant shops section, the assembly and the galvanizing s	shop, the testing shop	thine shop, the instrument o, the carpenter shop, the counters, technologic	foundry,
technicians, and OTK	personnel. subordinate to the Avia	the Official Industry Ministry, ar	CK 50X1-HUI
Shop Activities			
			50X1-HU
about 350 worked on t	he first shift and 150	d about 500 workers, of whon the second. This shop aning machines, and lathes.	had
"Magdeburg" and/or "K of the machines were instrument shop, whic	erner". The lathes wer semi-automatic, and the h was a sub-section of	which were of German make e Soviet make "DIP". Abou rest were mechanical. Th the machine shop, contained laning machine, one gear of	nt half ne ed three
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8.	machine, and one grinding-polishing machine. The assembly shop employed a to about 100 workers with about 50 assigned to each of the two shifts. The assembly shop had no machinery, only machinists' benches. There were no cranes and four men lifted each M-ll engine from one stand to the next. The finished engines were tested in the assembly shop, and packed in wooden case made in the carpentar shop. The technologists received blueprints on component parts of the M-ll engine and designated with which machines these parts were to be processed, also whether the parts were to be cast in the foundry, or machined.	e es
	Raw Materials	_
9•	The plant received steel and aluminum in sheets (one and one-half by one met in size and one and one-half millimeter thick), cast iron, black paint for the engine cylinders, alcohol, gasoline, oil, coal, lumber, and special instruments.	er 1-HUM
	Working Conditions	
10.	The plant fulfilled its norm by 120-130 percent. The machine shop was clean, ventilated, and had sufficient light. The instrument sub-section (and probably the entire machine shop) was always kept at a temperature of 20 degrees centigrade, in order to prevent expansion or shrinkage of parts. Although most of the machines were old, they were in good condition.	
11.	The plant operated on two shifts only, the first from 0800 to 1700 hours with one-half hour off for lunch, and the second from 1700 to 0100 hours with one-half hour off for supper. The office and administrative personnel worked from 0900-1800 hours with a one-hour lunch period.	50X1-HUM
	Security	
12.	All personnel employed in the aviation plant were permitted to enter only th own shops or offices. There were armed male guards stationed in front of all shop entrances.	eir
	Plant Personalities	
13.	Morozov (fnu) was the plant director. the director frequently went on official business trips to Moscow. The chief technologist was Kiselev (fnu)	50X1-HUM 50X1-HUM
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for	area was about 700 x 300 meters in dimension. See page 7,	50X1-HUM
Point 1.	Workers settlement (poselok). This was an area about 700 x 700 meters in dimension, containing an unknown number of one-story, red brick buildings about 10 meters square. Each house was assigned to a family, and only employees of the Aviation Plant were permitted to live there.	
Point 2.	Fence. This was a wooden fence, about two and one-half meters in height, which bordered the northern side of the plant area only. (The other three sides had brick or stone frails, described as points 12 and 16 below).	
Point 3.	Gate. This was an entrance for those employees who lived in the settlement (point 1 above). There was only one gate, guarded by a woman in a black uniform, armed with a revolver (make unknown). She kept the plant passes of settlement personnel, issuing them as the workers arrived and collecting the passes when the workers left the plant area.	
Point 4.	Plant road. This was an asphalt paved street leading from the truck entrance (point 13 below) to the gate described as point 3 above. It was about three meters in width.	
Point 5.	Galvanizing shop. This was a one-story red brick and stucco building, about 200 meters square with a gray tin roof. A chimney protruded about one meter above the roof, and vellow smoke rose from the chimney.	
Point 6.	Machine shop. This was a two-story buff brick building about 150 meters square. On the first floor were the machine shop, instrument shop, carpenter shop, and assembly shop. On the second floor were administration offices for the director, con-	(1-HUM

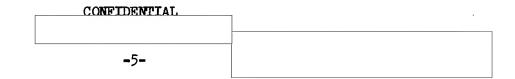
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and lounges.

structors, engineers, technologists/technicians, draftsmen, and bookkeepers. Also, on the second floor were the Party organization

offices, the Profsoyuz office, a library, a first aid station,



- Point 7. Railroad gate. The railroad which serviced the plant was of standard Soviet width.
- Point 8. Warehouses and loading platforms.
- Point 9. Foundry. This was a two-story buff brick building aboug 150 meters square (no details).
- Point 10. Garage. This was a one-story red brick building, about 10 x 5 meters in area dimension, which housed two or three three-ton ZIS trucks.
- Point 11. Fire station. This was a one-story red brick building about 10 x 5 meters in area dimension, adjacent to the machine shop (point 6 above). The fire station was equipped with one fire engine and had alert rooms for about 10 firemen.
- Point 12. Fence. This was a red brick wall, about two and one-half meters in height, which bordered the western and eastern sides of the plant area.
- Point 13. Railroad line. This was a spur line of standard Soviet gauge, servicing the aviation plant.
- Point 14. Vehicular entrance. This entrance was guarded by one sentry in a blue uniform, armed with a revolver, who checked the contents of trucks entering or leaving the plant.
- Point 15. Personnel entrance. This gate had seven or eight entrances for personnel.
- Point 16. Wall, This was a stone wall about two and one-half meters in height along the southern side of the plant.
- Point 17. Street. This was a west-east road in Voronezh, name unrecalled. It was asphalt paved and about five meters in width. It had one track for streetcar line #8, whose terminal was near the plant.
- Point 18. Vacant space. This was an empty area, about 400 meters square.
- Point 19. Restaurant. This was a one-story, red stuccoed brick building, about 25 x 10 meters in area dimension with a gray tin roof. It was open to all, but most of the patrons were plant employees. The restaurant's seating capacity was about 120.

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Point 20.	Plant park. This was an area about 20	00 x 150 meters in dimension.
Point 21.	Plant club. This was a one-story red meters square with a gray tin roof. I meeting room which also served for sho	It contained a lamon
Point 22.	Residential building. This was a five building about 100 x 10 meters in area roof. It was constructed in 1955 for	dimension with a coor tin
Point 23.	Residential building. This was a four building, about 100 meters x 10 meters gray tin roof. It was for plant employenstructed by German PW's. On the grap polyclinic staffed by eight or ten phynurses.	yees only, and had been
Point 24.	Residential building. This was a buil described in point 23 above, also buil ground floor were various food, product plant employees only).	t by Common Dilla O. Al.

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	COUNTRY:	USSR (Voronezhakay	ra oblast) REPORT		
*	SUBJECT:	Voronezh Excavator 1/n Komintern	Plant DATE O		
		I/R ACMINION	DATE A		
۹ ۲۰	, ⁽¹) ; ;	·	DATE OF I	EPORT: 13 May 19	50X1-HUM
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		VERGUINE	H EXCAVATOR PLANT I/H	KONTERR	50X1-HUM
					30X1-1101VI
	1.			· · ·	the Vorenesh
	Ex	cavator Plant i/n K	omintern (Voromeshass) n the northwestern na:	t of Verenesh at 1	imeni 22 Plekhanov-
in Salah				DENAME	IN CITS BEFORE ACTA
		and stemps melor to	r excavators, and exce 1917 and in 1953 its	Subordination was	CUSTRES TLOS MICE.
	of	the Ministry of Co	nstruction and Road M	achine Building to	CURC OT and
		nistry of Heavy Mac			50X1-HUM
	2. Th	e plant occupied an	area one to one and ded by a stone wall to	ome-half kilometers	x 400-500 meters
. 75	ho	don't who plent he	d one main mate with	about ton entrances	TOL BELBOSSET'
i,		e gete for trucks.	and one gate for a still and assembly shops	sugard dangs restric	SET SECTION
	-	and her man and before	men in a dark blue un	Lierns. Who were at	MOG ATEU BEAUTACIE!
		a marked on the new	sommel entrance issued uses of personnel leave	ing the plant. Inc	Jesses Walen
		and made the the	employees during work	hours, permatted	CCGBB OR PME AWAYE
	pl M	ant with the except is section was call	ion of one section of ed the "secret section	n".	A (Pec peros).
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		2 	3021-11010	
3•	The plant buildings consisted of: red brick and stucco building, at a gray tin roof, which contained instrument stock rooms and materi shop, a one-story white brick bu dimension, with a gray tin roof; stucco building about 200 x 150 m roof; and the instrument shop, a 100-150 x 40-50 meters in area di floor of the latter building were section, and a 'secret' area for parts produced for special "goven building were administrative, con offices for the Party organizer included a forge shop, a one-ston 200x150 meters in area dimension, red brick building about 20 x 10 for about 10 ZIS trucks; a restau building about 40 x 40 meters in 250 people at one sitting; and a area, with a maximum diameter of were given a test-run prior to sh	the machine shop lal storage areas silding 100-150 m the foundry, a conters in area directory red brimension with a gethe instrument storage and distruction, and be and Profsoyuz. Ty red brick and, with a gray tin meters in area durant, located in area dimension, testing area whi about 25 meters,	ters in area dimension with the the assembly shop, the mechanical repair seters x 40-50 meters in area one-story red brick and mension, with a gray tin rick and stucco building, tray tin roof. On the first shop with a thermal subscribution of machine component ookkeeping offices, and The plant layout also stucco building about a roof; a garage, a one-story limension with parking space a one-story red brick which accommodated about the was an oval-shaped open where finished excavators	HUM
	Production		50X1-H	UM
4.		1946 until d certain unident ed of three secti in and tracks tog hree meters in he ive meters in len lete excavator wa l engines, howeve vel was one cubic rollers. These e ufactured at the l machined parts were received fr ed, they were sen known destination use in the manufa	1954, the plant cified parts for "government cons: the cabin, the gether were four to four eight, and two meters in agth and four to five meters as 40 tons. Most of the er some models had electric meter. The tracks had excavators, used for conplant since 1946. The for other shops. Drawings com the Ministry offices, 50X1-int to the secret section, from in.	HUM
	CONFI	DENTIAL	50X1-HL	JM

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5•	about one and one-half excavators every 24 hours, or 30-40 excavators monthly. the plant assembled and produced about one and one-half excavators every 24 hours, or 30-40 excavators monthly.
	1,000,000 rubles. The excavators were shipped uncrated to all cities of the USSR, to Poland, Hungary and China. To facilitate shipment, the excavators were broken down into three principal sections, (the shovel, cabin, and tracks) which were loaded onto rail cars meparately.
	Shops and Machinery
6.	The machine shop employed about 900 workers of whom approximately 500 were assigned to the first shift, 250 to the second, and 150 to the third. The shop had an unknown number of lathes, milling, drilling, boring, polishing, gear cutting, and planing machines, and radial drilling machines. Most of the machines were of Soviet make. vertical turning and boring lathes and four-five fully automatic milling machines of Czech make, type "Skoda". The shop was divided into four sections, two for processing small parts and two for machining large parts. ten lathe operators, eight turret lathe operators, four millers, two drillers, four polishers, three porters, one machinist, and one OTK checker This group operated the following machinery: one large German-make fully automatic lathe, type unknown; eight turret semi-automatic lathes, Soviet make, type "Ordzhonikidze; ten semi-automatic lathes, Soviet make, type "Ordzhonikidze; ten semi-automatic lathes, Soviet make, type Undzhonikidze; ten semi-automatic lathes, Soviet make, type Undzhonikidze; and two drilling machines, fully automatic, Soviet make, type "Ordzhonikidze"; and two drilling machines, Soviet make, type unknown. The machine shop received forged, stamped or cast parts in rough form, and machined them to specifications, with tolerances of 0.3 to 0.5 millimeters. Parts produced were: drive gears, axles, crankshafts, bushings, tracks, wheals, rollers, cabin parts, shovel parts, nuts, bolts, washers, pins, screws, etc. This shop also produced parts for other shops (as stated above), later
	use unknown 50X1-HUN
7.	The assembly shop employed about 100 men in three shifts (most of whom worked during the first shift). Here the component excavator parts were assembled into a complete excavator, ready for testing. The assembly shop contained about 20 electric welding machines, 15-20 machinists' tables, and two overhead cranes. There was also a testing section which tested the finished excavators.
8.	The mechanical repair shop employed about 250 men, who worked one shift only. This section performed periodic overhauls, maintenance, and repair of machinery, and was responsible for plant building maintenance. This shop also assembled the excavator cabins, which were later sent to the assembly shop.
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9•	The foundry employed about 300 men who worked on one shift only. The foundry had two open hearth furnaces and one electric furnace. 50X1-HUM The forge shop employed about 150 men in two shifts, most of whom worked during the first shift. The shop had 25-30 forge hammers, and an unknown number of presses.
0.	The instrument shop employed about 150 men who worked one shift only. This shop contained mostly lathes and polishing machines.
	Raw Materials
1.	The plant received rolled iron and steel sheets, iron in bars and round pieces from unknown sources. The motors for the excavators were supplied by the Kharkov Tractor Plant. Seats for the cabin were received from an unknown plant. Steel cables for the shovel (origin unknown) were made of "Stalinite" type steel.
	Working Conditions
2.	The plant fulfilled its norm by 110-130 percent. In order to fulfill the norm, the work pace was intensive during the last few days of each month, followed by a slackening at the beginning of the next month. The machinery was kept in good condition by the workers and the repair crews. Most machines were semi-automatic, and the milling machines were fully automatic. The shops were airy, well ventilated in summer, warm in winter, and had 50×1-H sufficient light. a foreman, earned in salary and bonus a total of 1,200 rubles monthly, of which about 200 rubles were deducted for taxes. The average worker earned a total of about 800 rubles monthly, of which about 100-150 rubles were deducted for taxes.
	Personnel and Organization 50X1-HUM
3.	The plant director, an engineers, was Viktor Pavlovich Chernogubovskiy
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the third. The plant organization included the director, a chief engineerdeputy director, and a deputy for housekeeping. Subordinate to the chief engineer were: the chief of production, and the chief of materials and supply. The production chief supervised the construction offices (about 20 engineers), technological offices (about 25-30 engineers, technicians, technologists,

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assembly shop, the forge shop, the deputy for station, the gu supply rooms,	laboratory (10-15 technicians), the the mechanical repair shop, the four the testing section, and the therme housekeeping were: the garage, the ard force, the plant firemen, the chief of materials and supply so we materials, stockrooms, storage, or	ndry, the instrument shop, al section. Subordinate to messhall, a first aid mar force and cleaning apervised offices dealing
had a staff of	OTK personnel, who were directly sul	The plant also cordinate to the Ministry.
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